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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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Anslation internation	NAL PRELIMINARY	EXAMINA	ATION REPORT
	(PCT Article 36 and	Rule 70)	
Applicant's or agent's file reference	FOR FURTHER ACTION	See Notific	cation of Transmittal of Internation Examination Report (Form PCT/IPEA/4
International application No. PCT/RU2003/000157	International filing date (day/n 14 April 2003 (14.04		Priority date (day/month/year) 16 April 2002 (16.04.2002)
International Patent Classification (IPC) or nat B64C 11/46, 27/08	tional classification and IPC		
Applicant OBSCHESTVO S OGI	RANICHENNOI OTVE	rstvenno	OSTYU "MIDERA-K"
amended and are the basis for	ed by ANNEXES, i.e., sheets of this report and/or sheets conta Administrative Instructions un	of the descript	ion, claims and/or drawings which have ations made before this Authority (see
IV Lack of unity of inv V Reasoned statement citations and explan VI Certain documents VII Certain defects in the	of opinion with regard to novel rention t under Article 35(2) with regar actions supporting such stateme	rd to novelty, ent	step and industrial applicability inventive step or industrial applicability;
VIII Certain observation			
Date of submission of the demand		e of completio	n of this report
· ·	Date	_	n of this report 29 April 2004 (29.04.2004)
Date of submission of the demand	11.2003)	_	29 April 2004 (29.04.2004)



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International application No. PCT/RU2003/000157

I. Basis of the report						
1. With regard to the elements of the international application:*						
\boxtimes	the	e international application as originally filed				
] the	e description:				
	pa	ges	, as originally filed			
	pa	ges	, filed with the demand			
	pa	ges	, filed with the letter of			
Г	7 th	e claims:				
-	_		, as originally filed			
	-	nges	as amended (together with any statement under Article 19			
	pa	ages	, filed with the definition			
	pa	ages	, filed with the letter of			
Г	¬ սհ	e drawings:				
_			, as originally filed			
	_	ages	, filed with the demand			
	p	ages	, filed with the letter of			
Г	7.60	sequence listing part of the description:				
┞		ages	, as originally filed			
	-	ages	, filed with the demand			
•	_	ages	, filed with the letter of			
3. 1	With	rnational application was filed, unless otherwise indicated elements were available or furnished to this Authority in the language of a translation furnished for the purposes of the language of publication of the international application the language of the translation furnished for the purpose or 55.3). Tregard to any nucleotide and/or amino acid sequentiary examination was carried out on the basis of the sequentiary examination was carried out on the basis of the sequentiary examination was carried out on the basis of the sequentiary examination with the international application in computation furnished subsequently to this Authority in written form. The statement that the subsequently furnished writted international application as filed has been furnished. The statement that the information recorded in computation furnished.	rinternational search (under Rule 23.1(b)). In (under Rule 48.3(b)). It is of international preliminary examination (under Rule 55.2 and/ Ince disclosed in the international application, the international nence listing:			
5.	Repla	beyond the disclosure as filed, as indicated in the Supple	ndments had not been made, since they have been considered to go mental Box (Rule 70.2(c)).** g Office in response to an invitation under Article 14 are referred to this report since they do not contain amendments (Rule 70.16)			
**	and 7	0.17). eplacement sheet containing such amendments must be re				

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YES

NO

YES

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v.	Reasoned statement under A citations and explanations su	rticle 35(2) with regard to novelty, i pporting such statement	inventive step or industrial ap	plicability;
1.	Statement			
	Novelty (N)	Claims	11	YES
		Claims		NO

Industrial applicability (IA) Claims 1

Claims

Claims

Claims

2. Citations and explanations

Inventive step (IS)

Reference is made to documents D1-D3 cited in the search report:

D1: U. DZHONSON, "Teoriya vertoleta", book 1,

M., "Mir", 1983, pages 37, 38, figure 1.6

D2: US 3721403 A

D3: I.S. DMITRIEV ET AL., "Sistemy upravleniya

odnovintovykh vertoletov", M.,

"Mashinostroenie", 1969, pages 53-54,

figures 2.16, 2.17

A method is claimed for creating lifting force and horizontal thrust by means of aerodynamic surfaces.

A device is known from D2, embodying a method for creating lifting force and horizontal thrust by means of aerodynamic surfaces, that is the closest prior art to the claimed method, and includes circular motion of the aerodynamic surfaces and oscillation thereof, each aerodynamic surface, in phase with the circular motion, rotating counter thereto relative to an axis of rotation parallel to the axis of circular motion.

The claimed method differs from the known method in that each aerodynamic surface rotates with an angular velocity equal to the angular velocity of the circular motion, and oscillates relative to two mutually perpendicular axes situated respectively in two mutually

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perpendicular planes intersecting along the axis of rotation of the aerodynamic surfaces, one of them passing through the axis of circular motion and the axis of rotation.

Said characterising features for ensuring an almost even distribution of aerodynamic forces over the aerodynamic surfaces, that is highly efficient in creating both a lifting force and horizontal thrust, are not found in D1 and D3 and are not obvious.

Therefore the claim meets the requirements of novelty and inventive step.

The claim meets the requirement of industrial applicability.